

2019 AWWA Water Audit Level 1 Validation – Review Document

Audit Information:

Utility: Valley Center Municipal Water District **PWS ID:** 3710026

System Type: Potable **Audit Period:** Calendar Year 2019

Utility Representation: Wally Grabbe (District Engineer), Jim Pugh (Finance Director), Michelle Wick (Engineering Technician), Gabby Olson (Safety and Regulatory Compliance), Vanessa (Manager of Accounting) in for Jim Pugh

Validation Date: 7/23/2020 **Call Time:** 8:30 am **Sufficient Supporting Documents Provided:** Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 74 **Data Validity Band (Level):** Band IV (71-90)

ILI: 0.66 **Real Loss:** 766.70 (gal/mile-main/day) **Apparent Loss:** 48.82 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 3.6%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Drew Blackwell **Validator Qualifications:** Certified Water Audit Validator (CA)

Validator Provided

2019 AWWA Water Audit Level 1 Validation

Water System Name: Valley Center Municipal Water District **Water System ID Number:** 3710026 **Water Audit Period:** Calendar Year 2019

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

- The District is testing all exchanged meters. In 2019, 423 meters were exchanged and tested including (220) 3/4" meters, (94) 1" meters, (28) 1.5" meters, (54) 2" meters, (25) 3" meters and (2) VCMWD meters. Individual test results were not available for 2019 however they are being tracked for future reporting.
- Selected AMI Vendor/Supplier (Sensus); evaluated test meters and AMI reception/coverage requirements, dashboard interface and compatibility with the District's Springbrook accounting system. Phase 1 AMI meter modification project is underway. AMI meters are installed for all new meters and regional areas of the District are in the process of being upgraded.
- Contracted with Mission Consulting Services to update and validate water model.
- Reviewed supply meter testing procedures with San Diego County Water Authority. Venturi meters have been in place for many years and the initial bench flow tests are not available. Testing consist of calibrating the differential pressure instrumentation.

Certification Statement by Utility Executive:

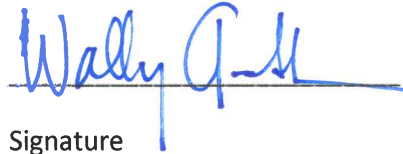
This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Wally Grabbe

Executive Name (Print)

District Engineer/Deputy GM

Executive Position


Signature

September 1, 2020

Date